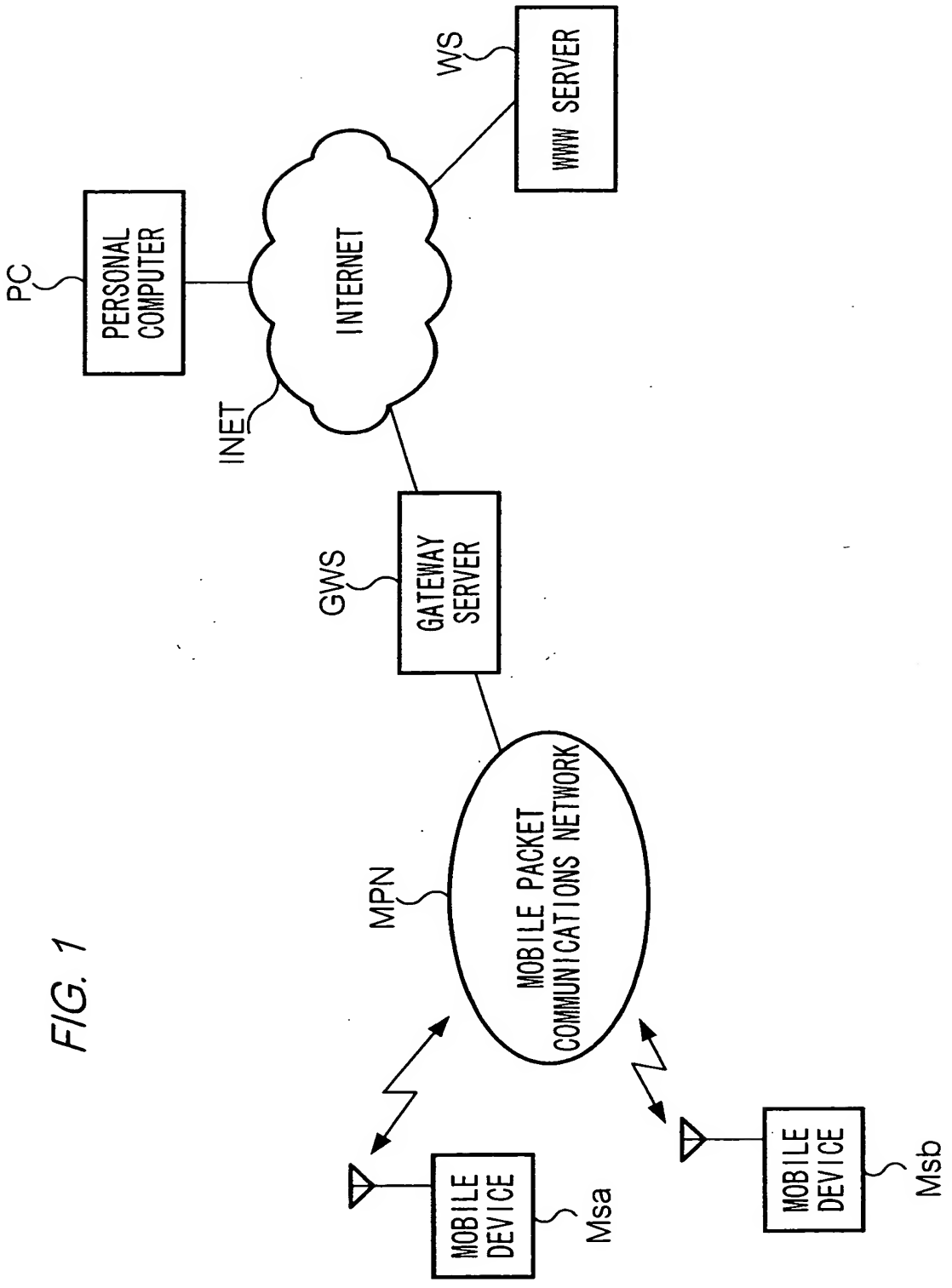

WS
WWW SERVER
PC
PERSONAL COMPUTER
INTERNET
INET
GWS
GATEWAY SERVER
MPN
MOBILE PACKET COMMUNICATIONS NETWORK
MOBILE DEVICE
Msa
MOBILE DEVICE
Msb

FIG. 1

FIG. 2

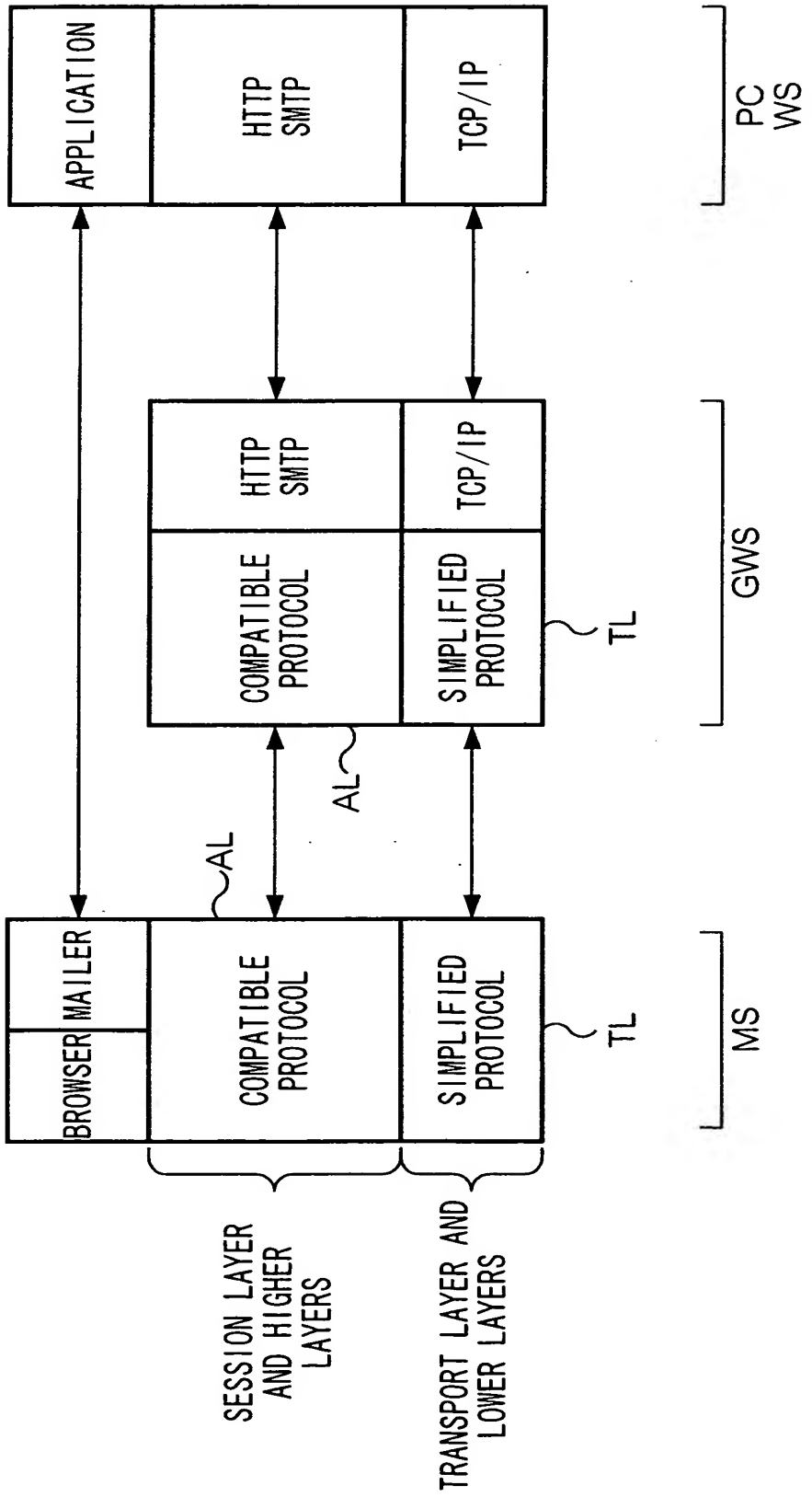

APPLICATION
HTTP
SMTP
TCP/IP
PC
WS
HTTP
SMTP
TCP/IP
COMPATIBLE
PROTOCOL
SIMPLIFIED
PROTOCOL
TL
GWS
AL
AL
BROWSER
MAILER
COMPATIBLE
PROTOCOL
SIMPLIFIED
PROTOCOL
TL
MS
SESSION LAYER
AND HIGHER
LAYERS
TRANSPORT LAYER AND
LOWER LAYERS

FIG. 3

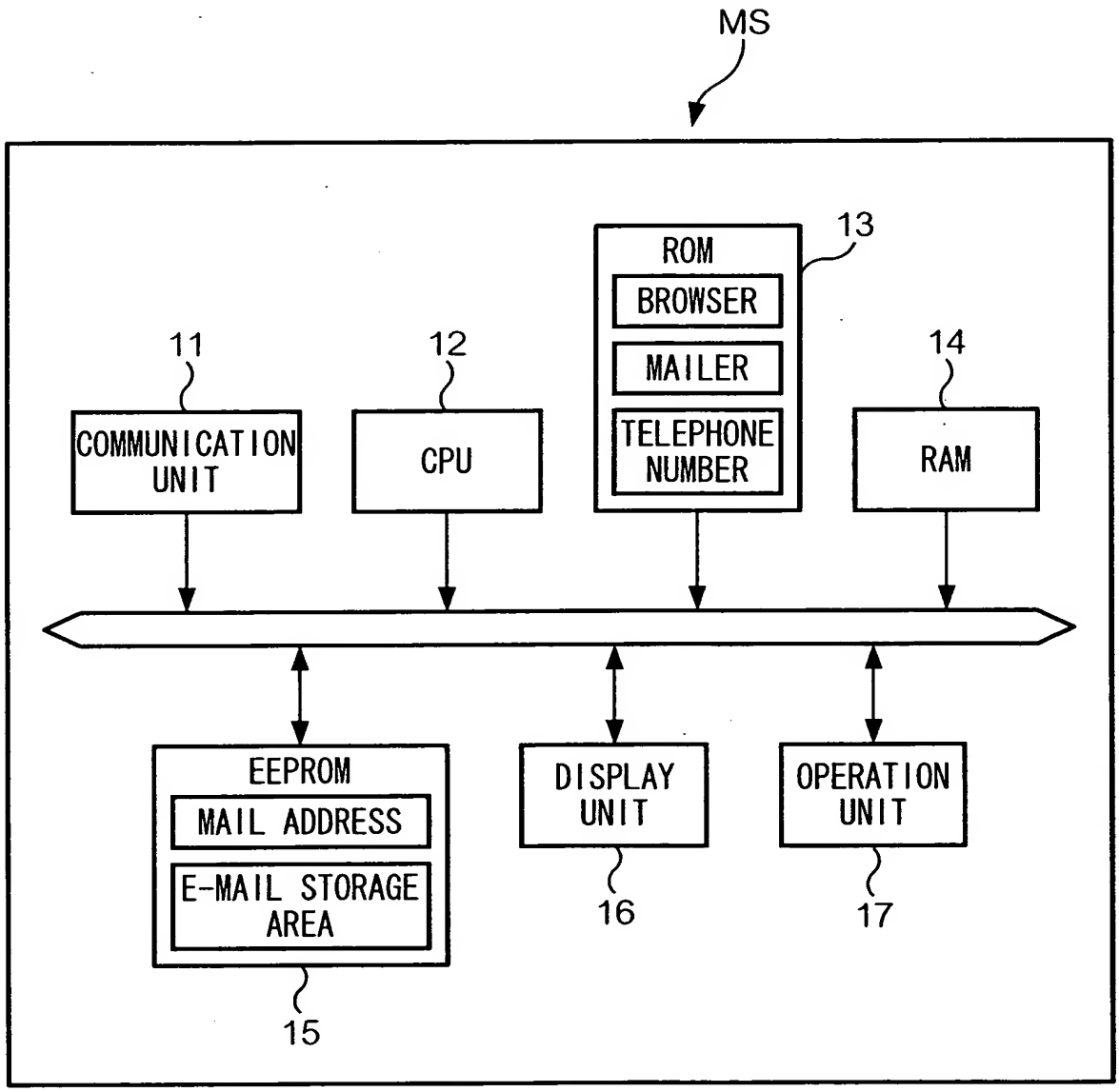

MS
ROM
BROWSER
MAILER
TELEPHONE NUMBER
13
11
12
14
COMMUNICATION UNIT
CPU
RAM
EEPROM
MAIL ADDRESS
E-MAIL STORAGE AREA
DISPLAY UNIT
OPERATION UNIT
15
16
17

FIG. 4

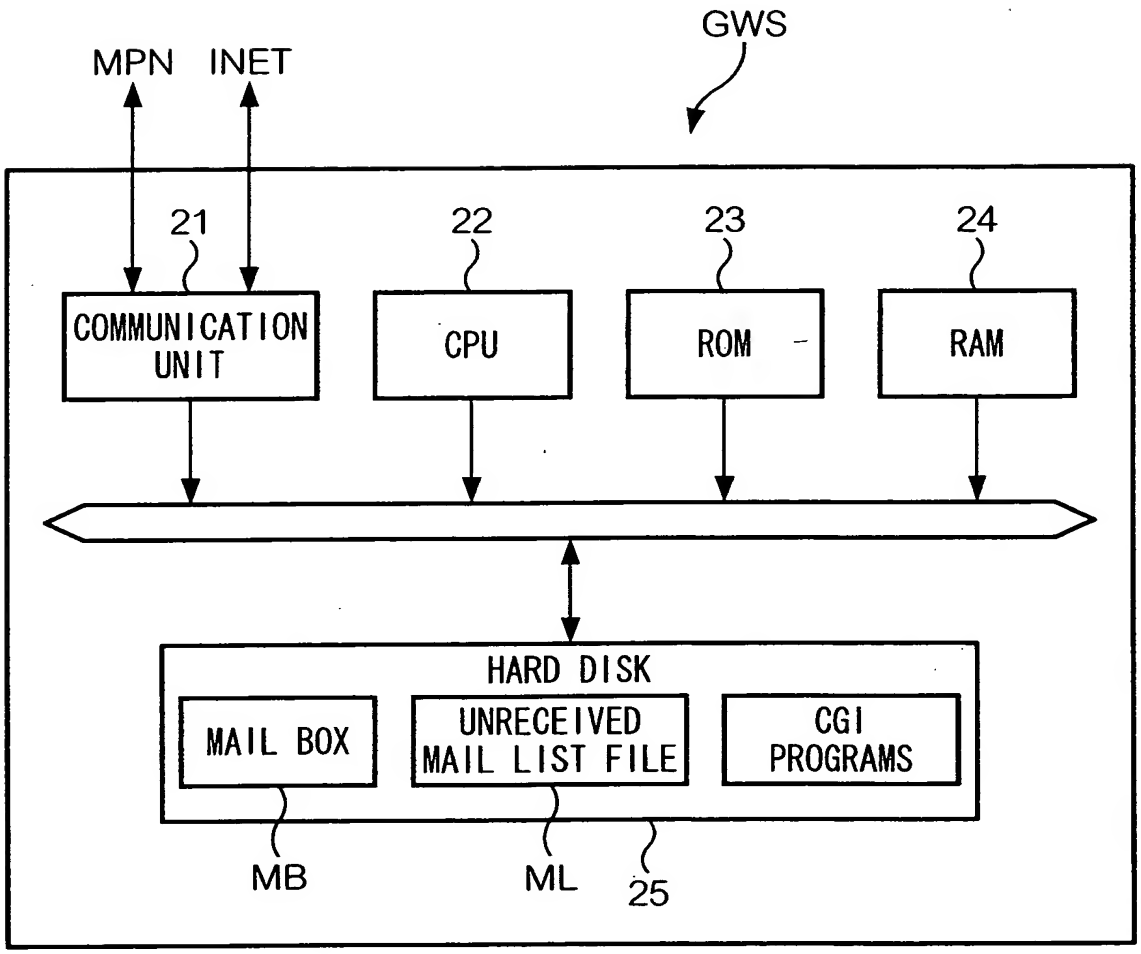

GWS
MPN
INET
21
22
23
24
COMMUNICATION UNIT
CPU
ROM
RAM
HARD DISK
MAIL BOX
UNRECEIVED MAIL LIST FILE
CGI PROGRAMS
MB
ML
25

FIG. 5

ML

TELEPHONE NUMBER	09012345678		
MAIL ADDRESS	abc@mpn.co.jp		
MAIL ID	SENDER (From)	TITLE (Subject)	SENDING TIME (Date)
0001	def@xyz.co.jp	YESTERDAY'S MATTER	2002/10/1
0002	ghi@opq.co.jp	NEWS	2002/10/2
0003	ghi@opq.co.jp	NEWS (RESEND)	2002/10/3
0004	.....	.....	.....
0005	.....	.....	.....
0006	.....	.....	.....

FIG. 6

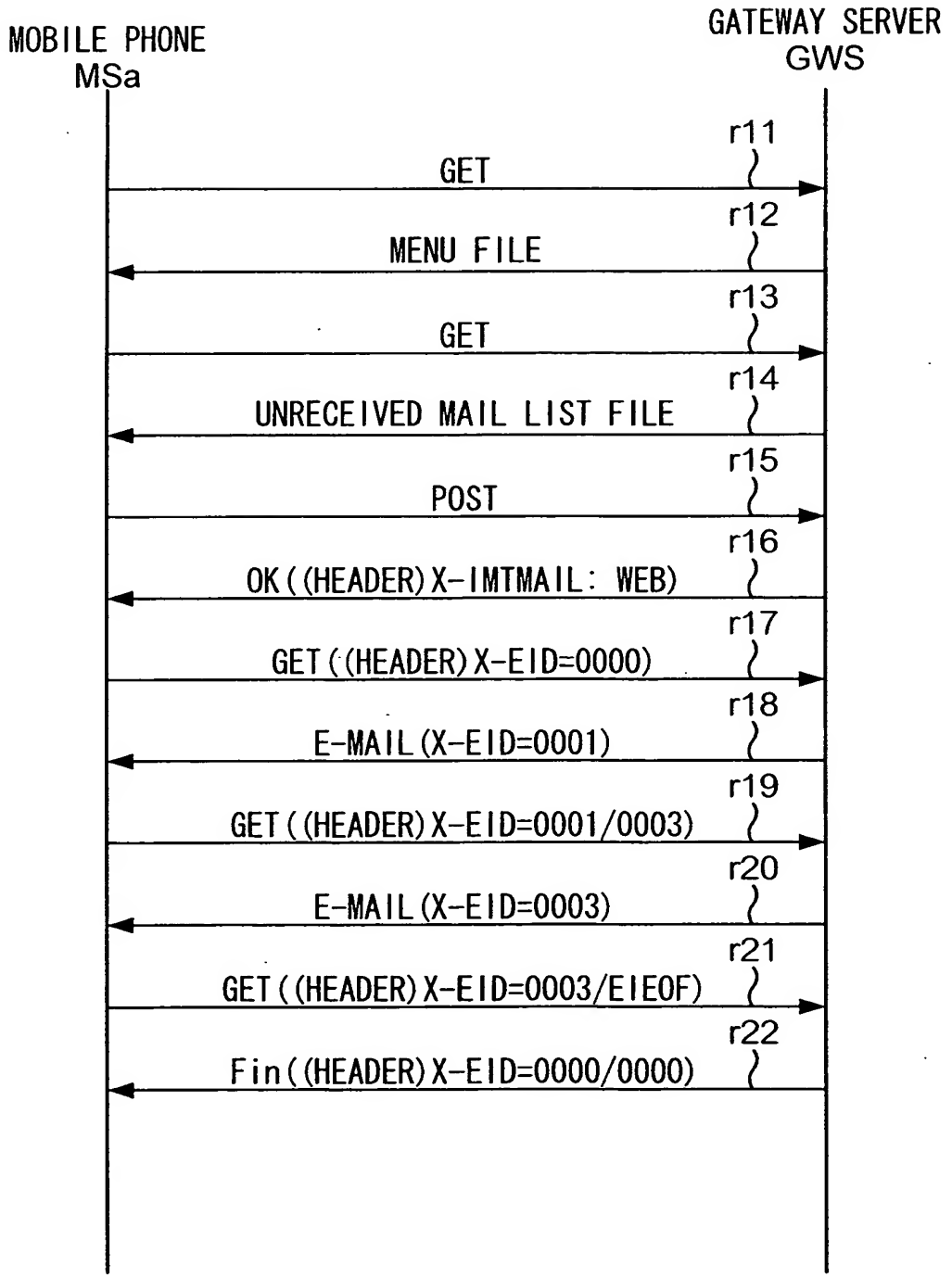

MOBILE PHONE
MSa
GATEWAY SERVER
GWS
r11
GET
r12
MENU FILE
r13
GET
r14
UNRECEIVED MAIL LIST FILE
r15
POST
r16
OK((HEADER)X-IMTMAIL: WEB)
r17
GET((HEADER)X-EID=0000)
r18
E-MAIL(X-EID=0001)
r19
GET((HEADER)X-EID=0001/0003)
r20
E-MAIL(X-EID=0003)
r21
GET((HEADER)X-EID=0003/EIEOF)
r22
Fin((HEADER)X-EID=0000/0000)

FIG. 7

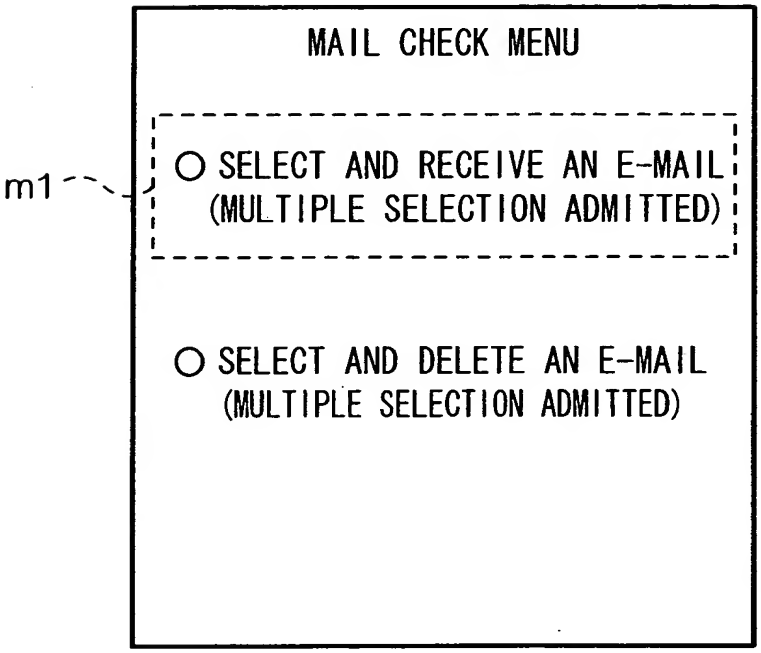

MAIL CHECK MENU
m1
○ SELECT AND RECEIVE AN E-MAIL
(MULTIPLE SELECTION ADMITTED)
○ SELECT AND DELETE AN E-MAIL
(MULTIPLE SELECTION ADMITTED)

FIG. 8

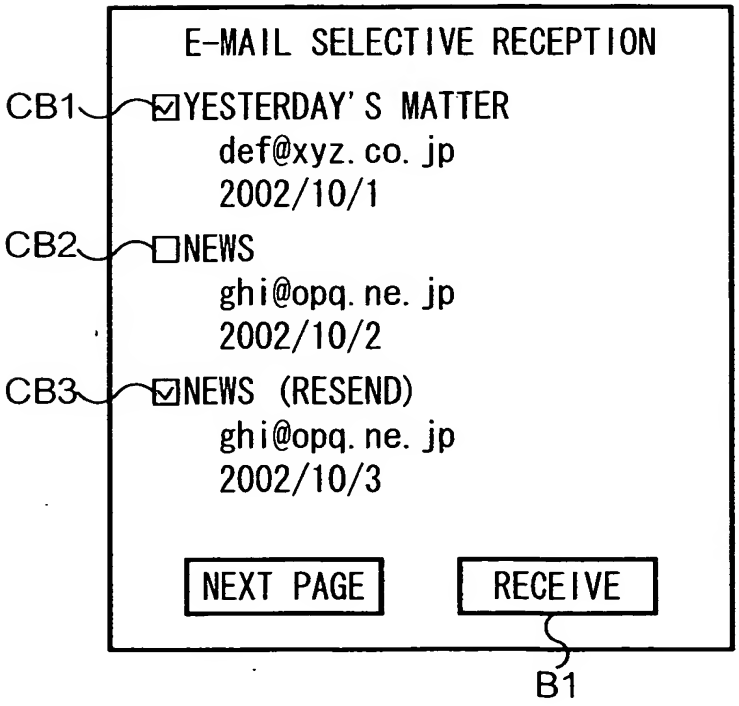

E-MAIL SELECTIVE RECEPTION
CB1
☑YESTERDAY'S MATTER
def@xyz.co.jp
2002/10/1
CB2
☐NEWS
ghi@opq.ne.jp
2002/10/2
CB3
☑NEWS (RESEND)
ghi@opq.ne.jp
2002/10/3
NEXT PAGE
RECEIVE
B1

FIG. 9

```
HTTP/1.1 200 OK CRLF
X-IMTMAIL: WEB CRLF
CRLF

<HEREAFTER, REQUEST ACCEPTING COMPLETION PAGE>
(<META HTTP-EQUIV="Refresh"URL=mpn.co.jp/imt.cgi?">INCLUDE)
```

FIG. 10

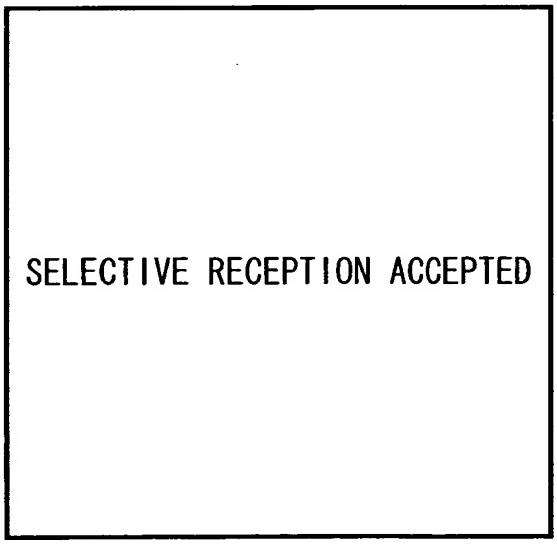


FIG. 11

```
GET HTTP://mpn.co.jp/imt.cgi? HTTP/1.1 CRLF
User-Agent: XXXXXXX CRLF
X-EID: 0000 CRLF
CRLF
```

FIG. 12

```
HTTP/1.1 200 OK CRLF
X-IMTMAIL: WEB CRLF
X-D: 200210051000 CRLF
X-EID: 0001/0003 CRLF
X-S: YESTERDAY'S MATTER CRLF
X-F: abc@mpn.co.jp CRLF
MIME-Version: 1.0 CRLF
Content-Type: multipart/mixed,boundary="mimeboundarymarker"
CRLF
Content-Length: XXXX CRLF
CRLF

<HEREAFTER, THE BODY OF AN E-MAIL (MAIL ID:0001)>
```

FIG. 13

```
GET HTTP://mpn.co.jp/imt.cgi? HTTP/1.1 CRLF
User-Agent: XXXXXXX CRLF
X-EID: 0001/0003 CRLF
CRLF
```

FIG. 14

```
HTTP/1.1 200 OK CRLF
X-IMTMAIL: WEB CRLF
X-D: 200210051001 CRLF
X-EID: 0003/EIEOF CRLF
X-S: NEWS (RESEND) CRLF
X-F: abc@mpn.co.jp CRLF
MIME-Version: 1.0 CRLF
Content-Type: multipart/mixed,boundary="mimeboundarymarker"
CRLF
Content-Length: XXXX CRLF
CRLF

<HEREAFTER, THE BODY OF AN E-MAIL (MAIL ID:0003)>
```

FIG. 15

```
GET HTTP://mpn.co.jp/imt.cgi? HTTP/1.1 CRLF
User-Agent: XXXXXXX CRLF
X-EID: 0003/E1E0F CRLF
CRLF
```

FIG. 16

```
HTTP/1.1 251 Fin CRLF
X-EID: 0000/0000 CRLF
CRLF
```

FIG. 17

FIG. 18

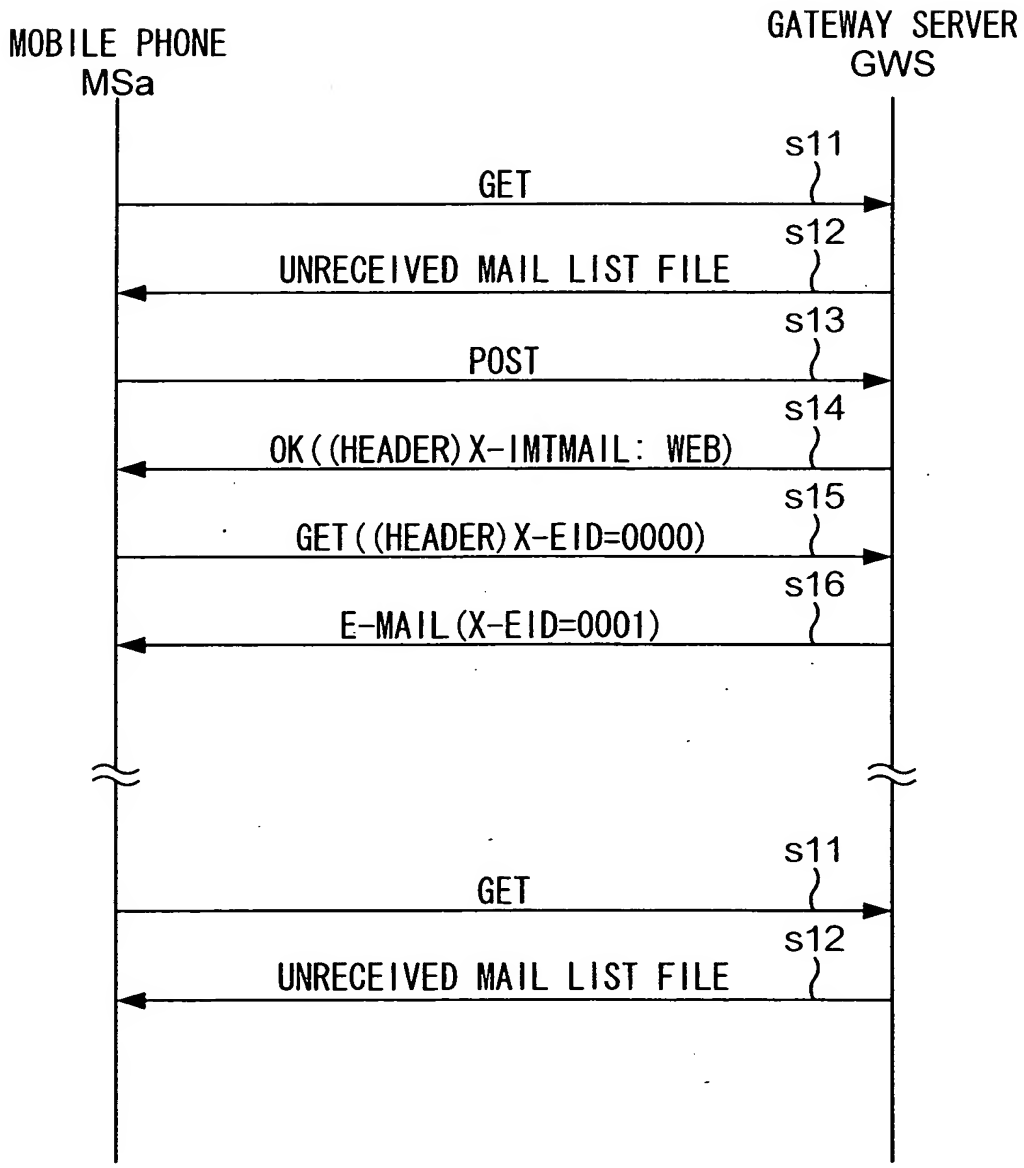

MOBILE PHONE
MSa
GATEWAY SERVER
GWS
s11
GET
s12
UNRECEIVED MAIL LIST FILE
s13
POST
s14
OK((HEADER)X-IMTMAIL: WEB)
s15
GET((HEADER)X-EID=0000)
s16
E-MAIL(X-EID=0001)
s11
GET
s12
UNRECEIVED MAIL LIST FILE

FIG. 19

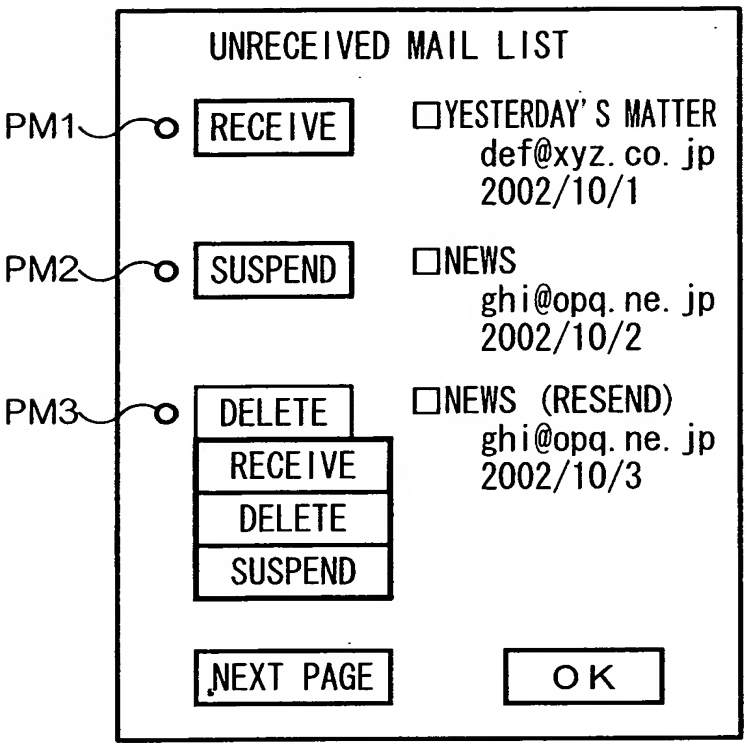
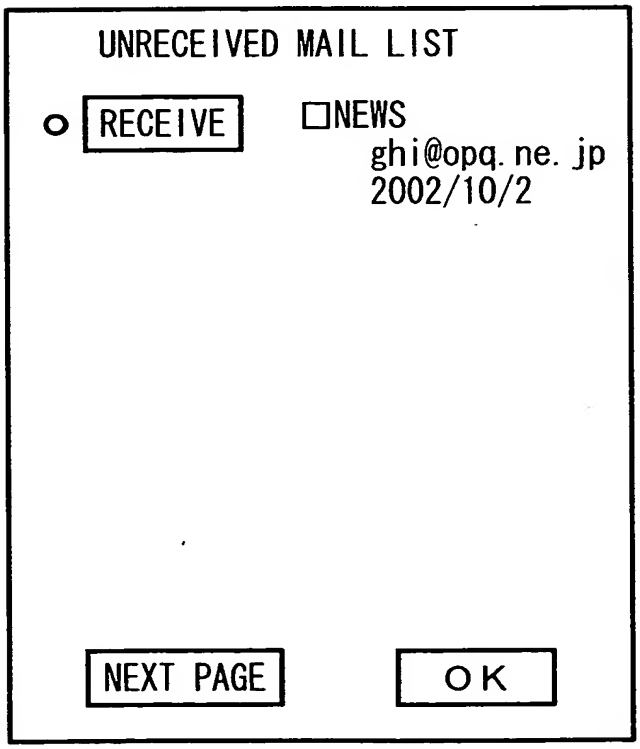

UNRECEIVED MAIL LIST
PM1
RECEIVE
YESTERDAY'S MATTER
def@xyz.co.jp
2002/10/1
PM2
SUSPEND
NEWS
ghi@opq.ne.jp
2002/10/2
PM3
DELETE
RECEIVE
DELETE
SUSPEND
NEWS (RESEND)
ghi@opq.ne.jp
2002/10/3
NEXT PAGE
OK

FIG. 20


UNRECEIVED MAIL LIST
RECEIVE
NEWS
ghi@opq.ne.jp
2002/10/2
NEXT PAGE
OK